

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference MTO 03 1351 0954	FOR FURTHER see Notification of Transmittal of International ACTION (Form PCT/ISA/220) as well as, where applications of transmittal of International ACTION (Form PCT/ISA/220) as well as, where applications of transmittal of International ACTION (Form PCT/ISA/220) as well as, where applications of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as, where application of transmittal of International ACTION (Form PCT/ISA/220) as well as a second of transmittal of International ACTION (Form PCT/ISA/220) as well as a second of transmittal of International ACTION (Form PCT/ISA/220) as well as a second of transmittal of International ACTION (Form PCT/ISA/220) as well as a second of transmittal of International ACTION (Form PCT/ISA/220) as well as a second of transmittal of International ACTION (Form PCT/ISA/220) as a second of transmittal of International ACTION (Form PCT/ISA/220) as a second of transmittal OCTION (Form PCT/ISA/220) as a second of		
International application No.	International filing date (a	lay/month/year)	(Earliest) Priority Date (day/month/year)
PCT/AU03/01202	15 September 2003		16 September 2002
Applicant	<u> </u>		
GENETIC TECHNOLOGIES	LIMITED et al		
This international search report has been prep Article 18. A copy is being transmitted to the		earching Authority and	is transmitted to the applicant according to
This international search report consists of a t	total of 3 sheets.		
It is also accompanied by a cop	y of each prior art document	t cited in this report.	
1. Basis of the report			
 With regard to the language, th which it was filed, unless other 			of the international application in the language in
the international search w (Rule 23.1(b)).	as carried out on the basis o	f a translation of the int	ternational application furnished to this Authority
carried out on the basis of the se	equence listing:		ational application, the international search was
contained in the internation	onal application in written for	orm.	
filed together with the inte	ernational application in cor	mputer readable form.	
furnished subsequently to	this Authority in written fo	rm.	
furnished subsequently to	this Authority in computer	readable form.	
the statement that the sub- application as filed has be		sequence listing does no	ot go beyond the disclosure in the international
the statement that the info furnished	rmation recorded in compu	ter readable form is ider	ntical to the written sequence listing has been
2. Certain claims were found un	searchable (See Box I).		
3. Unity of invention is lacking (See Box II).		•
4. With regard to the title,	the text is approved as sub	omitted by the applicant	
X	the text has been establish	ed by this Authority to	read as follows:
ACTN3 genotype screen for a	thletic performance		
5. With regard to the abstract,	the text is approved as sub	omitted by the applicant	
		one month from the da	8.2(b), by this Authority as it appears in Box III. te of mailing of this international search report,
6. The figure of the drawings to be pub	lished with the abstract is Fi	gure No.	
X	as suggested by the applic	ant.	X None of the figures
	because the applicant faile	ed to suggest a figure	
	because this figure better	characterizes the invent	ion



International application No.

PCT/AU03/01202

Α.	CLASSIFICATION OF SUBJECT MATT	ΓER				
Int. Cl. 7:	C12Q 1/68; C12N 15/12					
According to	International Patent Classification (IPC) or to	both	national classification and IPC			
В.	FIELDS SEARCHED					
	umentation searched (classification system followed RONIC DATABASE BOX BELOW	d by c	classification symbols)			
	n searched other than minimum documentation to the SECONIC DATABASE BOX BELOW	he ext	tent that such documents are included in the fields search	ned		
[WPIDS] [C	CA] [MEDLILNE] [FILE REGISTRY] AC	CTIN	f data base and, where practicable, search terms used) NIN; ALPHA-ACTININ; ACTN 3; ACTN3; A			
	; ALPHAACTININ 3; ATHLET?; PERF E; MUSCUL?; MUTANT; MUTAT?	ORIV	1?; MUSCLE; SPORT?; POWER; SNP; POL	YMORPHISM;		
C.	DOCUMENTS CONSIDERED TO BE RELEV	VAN'	Γ			
Category*				Relevant to claim No.		
	1	ctiniı	ES, Reed U, Passos-Bueno MR, Beggs AH n-3 (ACTN3) occurs in different forms of 3-228.	·		
Α	See the entire document.			132		
*	North KN, Yang N, Wattanasirichaigod A common nonsense mutation results in population. Nature Genetics 21:353–35	nα-	, Mills M, Easteal S and Beggs AH (1999). actinin-3 deficiency in the general			
Α	See the entire document.			1–32		
X I	Further documents are listed in the continu	uatio	n of Box C See patent family anne	ex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the princip or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step				stand the principle		
claim(s	claim(s) or which is cited to establish the considered to involve an inventive step when the document is combined publication date of another citation or other special with one or more other such documents, such combination being obvious			ent is combined		
"O" docum exhibit	(as specified) ent referring to an oral disclosure, use, "& ion or other means ent published prior to the international filing		a person skilled in the art document member of the same patent family			
date bu	it later than the priority date claimed					
21 October	ual completion of the international search 2003		Date of mailing of the international search report 2 7 OCT 2003			
	ling address of the ISA/AU		Authorized officer			
	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA					
E-mail address	c: pct@ipaustralia.gov.au (02) 6285 3929		DAVID OLDE Telephone No : (02) 6283 2569			

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International application No.

PCT/AU03/01202

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
	Mills MA, Yang N, Weinberger RP, Vander Woude DL, Beggs AH, Easteal S and North KN (2001). Differential expression of the actin-binding proteins, α-actinin-2 and -3, in different species: implications for the evolution of functional redundancy. Human Molecular Genetics 10(13):1335–1346.					
Α	See the entire document.	1–32				
	Yang N, MacArthur DG, Gulbin JP, Hahn AG, Beggs AH, Easteal S and North K (2003). ACTN3 genotype is associated with human elite athletic performance. American Journal of Human Genetics 73:627–631.					
P X S	See the entire document.	1–32				
·	Zanoteli E, Lotuffo RM, Oliveira ASB, Beggs AH, Canovas M, Zatz M and Vainzof M (2003). Deficiency of muscle α-actinin-3 is compatible with high muscle performance. Journal of Molecular Neuroscience 20:39–42.					
PΧ	See the entire document.	1–32				